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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/663,545	09/15/2003	Michel Poulenard	4717-11100	2568
28765 75	590 08/25/2006		EXAMINER	
WINSTON & STRAWN LLP 1700 K STREET, N.W.			PATEL, RITA RAMESH	
WASHINGTO			ART UNIT PAPER NUMBER	
			1746	
			DATE MAILED: 08/25/2006	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applica	ation No.	Applicant(s)	i
	10/663,	,545	POULENARD, MICHEL	
Office Action Summary	Examin	ier	Art Unit	
	Rita R. I		1746	
The MAILING DATE of this comm Period for Reply	nunication appears on t	he cover sheet w	rith the correspondence address	
A SHORTENED STATUTORY PERIOD WHICHEVER IS LONGER, FROM THE - Extensions of time may be available under the provis after SIX (6) MONTHS from the mailing date of this cool of the cool of	E MAILING DATE OF tions of 37 CFR 1.136(a). In no communication. In statutory period will apply and reply will, by statute, cause the a ths after the mailing date of this	THIS COMMUNI event, however, may a d will expire SIX (6) MO application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status				
1) Responsive to communication(s)	filed on 15 September	<u>r 2003</u> .		
2a) This action is FINAL .	2b)⊠ This action is	non-final.		
3) Since this application is in conditi	ion for allowance exce	pt for formal mat	ters, prosecution as to the merits is	
closed in accordance with the pra	actice under <i>Ex parte</i> (Quayle, 1935 C.). 11, 453 O.G. 213.	
Disposition of Claims				
4) Claim(s) 1-28 is/are pending in the	ne application.			
4a) Of the above claim(s) i	s/are withdrawn from o	consideration.		
5) Claim(s) is/are allowed.				
6)⊠ Claim(s) <u>1-28</u> is/are rejected.				
7) Claim(s) is/are objected to				
8) Claim(s) are subject to res	striction and/or election	requirement.		
Application Papers	·			
9) The specification is objected to by	the Examiner.			
10)⊠ The drawing(s) filed on <u>15 Septen</u>	<u>mber 2003</u> is/are: a)⊠	accepted or b)[objected to by the Examiner.	
Applicant may not request that any o		•		
	-		g(s) is objected to. See 37 CFR 1.121(d).	,
11)☐ The oath or declaration is objected	d to by the Examiner. I	Note the attache	d Office Action or form PTO-152.	
Priority under 35 U.S.C. § 119				
12)⊠ Acknowledgment is made of a cla a)⊠ All b)☐ Some * c)☐ None of	- · · · · · · · · · · · · · · · · · · ·	ınder 35 U.S.C.	§ 119(a)-(d) or (f).	
 Certified copies of the prior 	rity documents have be	een received.		
Certified copies of the prior	rity documents have be	en received in A	Application No	
Copies of the certified copi	, , , , , , , , , , , , , , , , , , ,		received in this National Stage	
application from the Interna	•			
* See the attached detailed Office ad	ction for a list of the ce	rtified copies not	received.	
Attachment(s)				
1) Notice of References Cited (PTO-892)	(070.045)		Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Reviews Information Disclosure Statement(s) (PTO-1449 Paper No(s)/Mail Date 9/15/03; 1/27/04. 			(s)/Mail Date Informal Patent Application (PTO-152)	

DETAILED ACTION

Page 2

Priority

Acknowledgement has been made of applicant's claim for priority under 35 U.S.C. 119. This application claims priority of foreign application FR 0308392 filed July 9, 2003.

Drawings

The drawings received 9/15/03 are acceptable for examination purposes.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

The term "detection" in claim 26 is a relative term which renders the claim indefinite. The term "detection" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention. Applicant states in claim 26, "the support element...further comprising at least one detection rod fastened between the plates"; albeit applicant provides a structural relationship of such a rod with relation to the plates, the term detection is not defined by the claim, nor in the specification. In the specification said term is made reference to on page 7, lines 20-22 and page 9, lines 3; however, the means for detection are not presented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-12, 15-22, and 27 are rejected under 35 U.S.C. 102(e) as being anticipated by Lamure (US Patent No. 6,576,065).

Lamure teaches a wafer treating apparatus with a tank adapted to contain a treatment bath therein and provided with a wafer support device adapted to receive at least on wafer of a first size; a grasping element for grasping and placing each first size wafer in the tank and withdrawing said first size wafer therefrom; and a second support adapted to receive at least one wafer of a second size; said second support having a geometry such that is can be grasped directly by the grasping element and received by the wafer support device of the tank (col. 6, lines 50-62). Lamure discloses holding members 11 which comprise of a pair of holding plates 12 and retaining members 14 which consist of bars 15; the holding members 11 must have bearing areas 48 such that the support 10 can rest on the wafer supports 22 (Figures 3a and 3b; col. 4, lines 27-28; 44-45). The bars 15 are rigidly joined to the holding plate 12; thus reading on applicant's claim for at least one rotation-blocking element for preventing the support adapted is

Page 4

Art Unit: 1746

positioned in the wafer-holding device. As seen in Figure 6 of Lamure, the support holding plates 12 are substantially shaped U-shaped, as well as, a circular shape that corresponds substantially to the contour of a wafer of a first size. Bars 15, as illustrated in Figure 5, extend through plate 12 and read on applicant's claim limitation for a protruding element that cooperates with a limit stop of the wafer-holding device. The apertures formed in plate 12 for holding bars 15 therein form a shoulder limit stop, hence reading on applicant's claim. In Figure 7, Lamure depicts a V-shaped profile formed by bars 15. Also, Lamure's invention discloses each plate 12 of a certain thickness, as diagrammatically shown, which enables the plate to be held inside the wafer-holding device.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having-ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 13-14, 23-25, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lamure as applied to the claims above.

Lamure teaches a V-shaped profile that forms a single angle by bars 15, in Figure 7; however, Lamure fails to specify the exact degree of the angle created by said bars. It would have been obvious to one having ordinary skill in the art at the time the invention was made to optimize said angle/slot locations to hold the substrate effectively

since it has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980). Optimization of such an angle formed by said bars would create the best holding angle to accommodate various sized wafers therein.

Page 5

Re claim 25, Lamure states that as a general rule, the support 10 must be compatible with the physical and/or chemical treatments mentioned above and must not contaminate the wafers 1. The support 10 is advantageously made from a very pure and chemically inert material such as quartz or various plastics material and fluorinated products (col. 4, lines 18-23). In particular, Lamure's teaching of plastics material and fluorinated product composition for the support reads on applicant's claims for making the support elements from a polyvinylidene fluoride material. It would have been obvious to one of ordinary skill in the art at the time of the invention to create the support elements of Lamure with polyvinylidene fluoride because it is a chemically inert material, and thus would not chemically interfere with any processing occurring within the apparatus; semiconductor processing is a chemically sensitive practice, so it would be advantageous to perform such processing within an apparatus that will not leach chemicals thereunto and thus create undesired chemical reactions.

Re claim 28, applicant claims "the support element...wherein the reduced thickness edge has a beveled profile", however, choice in aesthetic designs was held to have been obvious. In re Seid 73 ISPA 431 (CCPA 1947). Thus, Lamure's invention provides a sufficient basis for providing such an obvious design choice, and thus reads

Art Unit: 1746

on applicant's claim because Lamure teaches the plates 12 to be of a thinness that supports its capability of being held within the wafer-holding device.

Conclusion '

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Shimizu et al. (US Patent No. 6,171,437) teaches a semiconductor device wherein an etching holder 10 includes a ring-shaped substrate holding member 11 having an opening portion at a center thereof, a ring-shaped substrate holding member 12 having an opening portion expanding step by step toward on main surface, and screws 15 fixing mutually each of the substrate holding members 11 and 12 through an O-ring.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rita R. Patel whose telephone number is (571) 272-8701. The examiner can normally be reached on M-F: 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Barr can be reached on (571) 272-1414. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/663,545 Page 7

Art Unit: 1746

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

RRP

MICHAEL BARR SUPERVISORY PATENT EXAMINER